

CLAIMS

1. A transducer-supporting structure, characterized in that said structure at least comprises:

a transducer for recording and reproducing information on and from a medium;

a transducer mounting section which is mounted with said transducer and comes into contact with said medium by means of mechanical action or keeps a fixed distance from said medium;

a suspension which supports said transducer mounting section and elastically positions said transducer in the direction such as to bring and separate said transducer close to and from said medium; and

a thermal coupling member formed of a part of said suspension for thermally coupling said transducer with said suspension in direct contact with said transducer, and

at least a part of heat generated in said transducer is dissipated through said suspension.

2. The transducer-supporting structure according to claim 1, characterized in that said thermal coupling member has an elastic restoring force, and is in contact with said transducer.

3. The transducer-supporting structure according to claim 1, characterized in that said transducer is an electromagnetic transducer:

4. The transducer-supporting structure according to claim 1, characterized in that said transducer is an electro-optical transducer.

5. A transducer-supporting structure, characterized in that said structure at least comprises:

a transducer for recording and reproducing information on and from a medium;

a transducer mounting section which is mounted with said transducer and comes into contact with said medium by means of mechanical action or keeps a fixed distance from said medium;

a suspension which supports said transducer mounting section and elastically positions said transducer in the direction such as to bring and separate said transducer close to and from said medium; and

a thermal coupling member for thermally coupling said transducer with said suspension, and

said thermal coupling member and said transducer or said thermal coupling member and said suspension are at least partially coupled thermally with each other via a viscous fluid; and

at least a part of heat generated in said transducer is dissipated through said suspension.

6. A transducer-supporting structure, characterized in that said structure at least comprises:

a transducer for recording and reproducing information on and from a medium;

a transducer mounting section which is mounted with said transducer and comes into contact with said medium by means of mechanical action or keeps a fixed distance from said medium;

a suspension which supports said transducer mounting section and elastically positions said transducer in the direction such as to bring and separate said transducer close to and from said medium; and

a thermal coupling member for thermally coupling said transducer with said suspension, and

said thermal coupling member is a gel-form substance, and said transducer and said suspension are coupled thermally with each other via said gel-form substance; and

at least a part of heat generated in said transducer is dissipated through said suspension.

7. A transducer-supporting structure, characterized by at least comprising:

a transducer for recording and reproducing information on and from a medium;

heat dissipating means is formed integrally with said transducer; and

a suspension for holding said transducer at a desired position with respect to said recording medium.

8. The transducer-supporting structure according to claim 7, characterized in that said transducer is an electromagnetic transducer.

9. The transducer-supporting structure according to claim 7, characterized in that said transducer is an electro-optical transducer.